

**AT0850 50Ω 8W 1~40dB DC~52GHz**  
**2.4mm High Performance 50Ohm Stainless Steel Attenuator**



Ver A/0 Release Date March, 2018

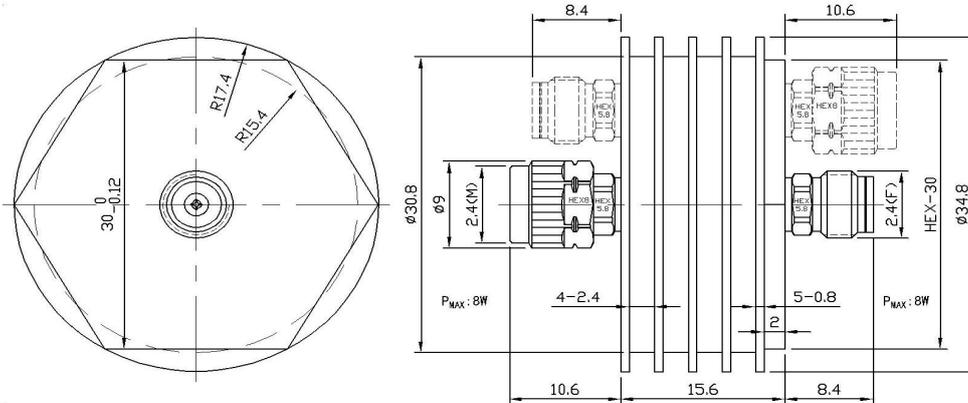
P/N:AT0850

**Features**

- DC~52GHz Frequency Range
- Max Power 8W
- VSWR < 1.52 < 1.34 < 1.23 < 1.16  
C-Class B-Class A-Class S-Class

**Applications**

- Miniature Size
- 2.4mm Interfaces
- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems



**Mechanical & Environmental Specifications**

Outer Conductor Coupling Nut	Passivated Stainless Steel	Temp. Range	Storage	-55°C~125°C
Radiator	Black Anodized Aluminum Heatsink	Working Temp.		-55°C~100°C
Inner Conductor Male	Beryllium Copper Gold plated (≥ 1.27μ m)	Altitude	Storage	< 15300 Meters
Female	Beryllium Copper Gold plated (≥ 1.27μ m)	Working Temp.		< 4800 Meters
Weight	38 g			

**Electrical Specifications**

Model	Frequency Range (GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		1~3	4~8	9~25	16~40	
AT0850C-XX	DC~50GHz	-0.8/+1.2	-0.9/+1.5	-1.0/+1.0	-1.0/+1.5	-13.7
AT0850B-XX	DC~50GHz	-0.7/+1.0	-0.8/+1.2	-0.8/+0.8	-0.9/+1.2	-16.8
AT0850A-XX	DC~50GHz	-0.6/+0.9	-0.7/+1.0	-0.7/+0.7	-0.8/+1.0	-19.7
AT0850S-XX	DC~50GHz	-0.5/+0.8	-0.6/+0.9	-0.6/+0.6	-0.6/+0.8	-22.6

XX refers to decrease value, C, B, A, S are average power of performance level.

Average power: The ambient temperature corresponding to bidirectional 8W at input or output is 25 °C

When temperature is up to 100°C. The power decreases linearly to 1W

Peak power: Max power 100W (Maximum 5 μ s pulse width, maximum 2% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 4CFM, long-term work

**Remark**

- 1、 All physical dimensions are in mm and the tolerance is ± 1%
- 2、 The network analyzer tests in the whole frequency band, 100% electrical performance test.
- 3、 Special connectors and special attenuation can be customized according to customer requirements

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